## **AMENDMENTS TO THE CLAIMS**

1. (Currently Amended) A water-based, recyclable metalworking fluid comprising:

water;

a water-soluble polyalkylene glycol lubricating agent;

an alkanolamine;

- a polyglycol surfactant <u>having a composition which differs from that of said polyalkylene</u> glycol lubricating agent;
- a polyol surfactant <u>having a composition which differs from that of said polyalkylene</u> glycol <u>lubricating agent and said polyglycol surfactant</u>;

a biocide; and

a corrosion inhibitor;

said fluid being further characterized in that it is free of fatty acids.

- 2. (Original) The metalworking fluid of claim 1, further including an isoalkyloxy amine oxide.
- 3. (Original) The metalworking fluid of claim 1, further including a benzotriazole salt.
- 4. (Original) The metalworking fluid of claim 1, wherein said alkanolamine comprises a mixture of alkanolamines.

- 5. (Original) The metalworking fluid of claim 1, wherein said alkanolamine is selected from the group consisting of: triethanolamine, diethanolamine, monoisopropanolamine, diisopropanolamine, triisopropanolamine, and combinations thereof.
- 6. (Original) The metalworking fluid of claim 1, wherein said biocide comprises a mixture of biocidal materials, said mixture having an antibacterial and an antifungal effect.
- 7. (Original) The metalworking fluid of claim 6, wherein said mixture of biocidal materials includes at least one morpholine compound.
- 8. (Original) The metalworking fluid of claim 6, wherein said mixture of biocidal materials includes poly(oxy-1,2-ethanediyl(dimethylimino)-1,2-ethanediyl(dimethylimino)-1,2-ethanediyl dichloride).
- 9. (Original) The metalworking fluid of claim 1 characterized in that it is free of phenols.
  - 10. (Canceled)
- 11. (Original) The metalworking fluid of claim 1, wherein said polyglycol surfactant comprises a polyoxypropylene-polyoxyethylene block copolymer.

- 12. (Original) The metalworking fluid of claim 1 wherein the polyol surfactant comprises poly(oxy-1-2-ethanediyl),alpha-(4nonylphenyl)-omegahydroxy branched.
- 13. (Currently Amended) A water-based, recyclable metalworking fluid comprising, on a weight basis:
  - 12-14% of a water-soluble polyalkylene glycol lubricating agent;
  - 1-15% of an alkanolamine;
- 5-7% of a polyglycol surfactant <u>having a composition which differs from that of said</u> polyalkylene glycol surfactant;
- .5-1.0% of a polyol surfactant <u>having a composition which differs from that of said</u> polyalkylene glycol lubricating agent and said polyglycol surfactant;
  - 10-30% of a corrosion inhibitor;
  - .5-1.0% of a biocide; and

the remainder, water;

said fluid being further characterized in that it is free of fatty acids.

- 14. (Original) The metalworking fluid of claim 13, further including, on a weight basis: 10-12% of isoalkyloxy amine oxide.
- 15. (Original) The metalworking fluid of claim 13, further including, on a weight basis: 1.5-2% of a benzotriazole salt.

- 16. (Original) The metalworking fluid of claim 13, wherein said biocide comprises a mixture of biocidal materials, said mixture having antibacterial and antifungal effects.
- 17. (Original) The metalworking fluid of claim 16 wherein said mixture of biocidal materials includes, on a weight basis, .35-.5% of a morpholine compound.
- 18. (Original) The metalworking fluid of claim 16, wherein said mixture of biocidal materials includes, on a weight basis, .5-1.0% of poly(oxy-1,2-ethanediyl(dimethylimino)-1,2-ethanediyl(dimethylimino)-1,2-ethanediyl dichloride).
- 19. (Original) The metalworking fluid of claim 13, further including a material selected from the group consisting of: surfactants, antifoaming agents, coloring agents, fragrances, viscosity control agents, and combinations thereof.
- 20. (Original) The metalworking fluid of claim 13, wherein the alkanolamine component comprises 13-15% of the composition.
- 21. (Original) The metalworking fluid of claim 13, wherein the corrosion inhibitor comprises 8-10% of the composition.
- 22. (Currently Amended) A method for shaping a metal workpiece, said method including the step of:

contacting said workpiece with a water-based, recyclable metalworking fluid, while said workpiece is being shaped, said fluid comprising:

a water-soluble polyalkylene glycol lubricating agent;

an alkanolamine;

a polyglycol surfactant <u>having a composition which differs from that of said polyalkylene</u> glycol lubricating agent;

a polyol surfactant <u>having a composition which differs from that of said polyalkylene</u> glycol lubricating agent and said polyglycol surfactant;

a biocide; and

a corrosion inhibitor;

said fluid being further characterized in that it is free of fatty acids.

23. (Original) The method of claim 22, including the further steps of: collecting spent metalworking fluid; and recycling said spent metalworking fluid.

- 24. (Original) The method of claim 22, wherein said workpiece comprises leaded brass, and wherein said method of shaping comprises cutting said leaded brass workpiece.
  - 25. (Original) The method of claim 22, wherein said fluid comprises, on a weight basis:
  - 12-14% of said polyalkylene glycol;
  - 1-15% of said alkanolamine;
  - 5-7% of said polyglycol surfactant;

.5-1.0% of said polyol surfactant;

10-30% of said corrosion inhibitor;

.5-1.0 % of said biocide; and

the remainder water.

- 26. (Original) The method of claim 25, wherein said metalworking fluid further includes, on a weight basis, 10-12% of isoalkyloxy amine oxide.
- 27. (Original) The method of claim 25, wherein said metalworking fluid further includes, on a weight basis, 1.5-2% of a benzotriazole salt.
  - 28. (New) A water-based, recyclable metalworking fluid comprising:

water;

a water-soluble polyalkylene glycol lubricating agent;

an alkanolamine;

- a polyglycol surfactant having a composition which differs from that of said polyalkylene glycol lubricating agent;
- a polyol surfactant having a composition which differs from that of said polyalkylene glycol lubricating agent and said polyglycol surfactant;
  - a biocide;
  - a corrosion inhibitor; and

an isoalkoxy amine oxide.